

ABSTRACT

The invention implements inter-terminal transmission with guaranteed capacity based on the single-path configuration function of networks composed of switching hubs with an MAC address learning function and centralized management of transmission capacity, without control over hubs. The capacity to be used by transmission links on a network is stored in advance and transmission capacity along the path to be used is allocated based on requests from terminals, with the allocation removed using a Terminate Request. At such time, by using transmission links and switching hubs with an MAC address learning function, transmission is limited to single-path transmission.